

FIG. 1
Prior Art

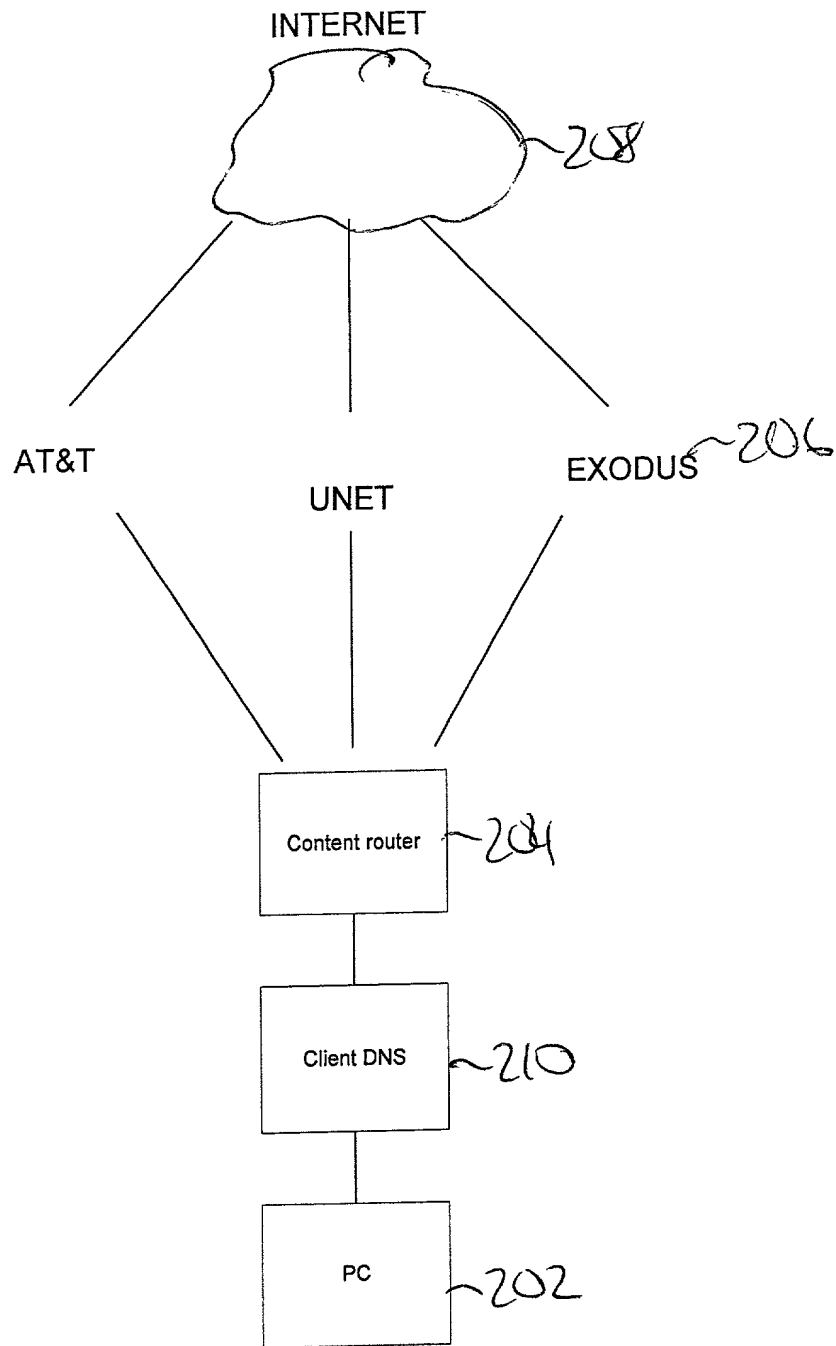


FIG. 2

DNS mode

Client DNS server
receives DNS
request from client

DNS server sends
proxy DNS request
to content router

Content router sends N DNS
responses, where each of the DNS
responses has a 1) different virtual IP
address that is mapped to a type of
service

Intermediate
routers perform
next-hop policy
based routing
based on type of
service or DSCP

First DNS
response to reach
client DNS server
wins; subsequent
DNS responses
are discarded

DNS server
responds with IP
address of winning
facility/service to
requesting client

Requesting client
sends TCP syn
packet to winning
virtual IP address

Web server sends
back type of
service that is
associated with
the winning virtual
IP address

FIG. 4

Content router configuration - DNS mode

~306 ~304 A-records ~302 ~308

IP address1	Domain name1	Type of service1
IP address2	Domain name2	Type of service2

FIG. 3

TCP packet

~502 ~504 ~506

Sequence number	Acknowledgement number	Acknowledgement flag
Synchronize flag	Reserved (type of service)	

~508 ~510

FIG. 5

Mapping - TCP mode

~704 ~702

IP address1	Type of service1
IP address2	Type of service2

FIG. 7

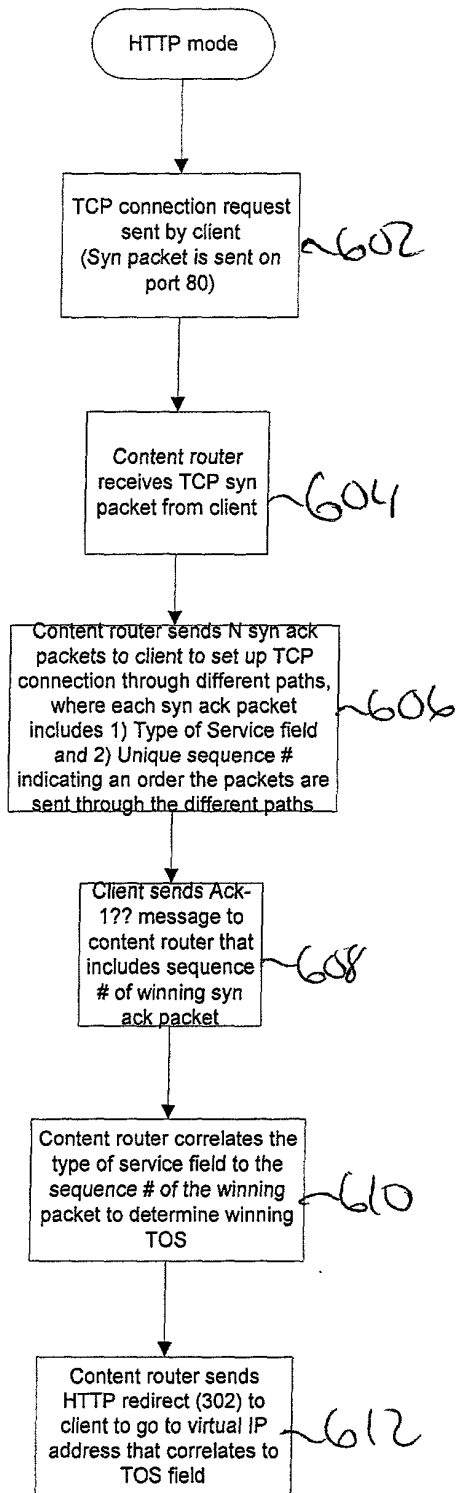


FIG. 6

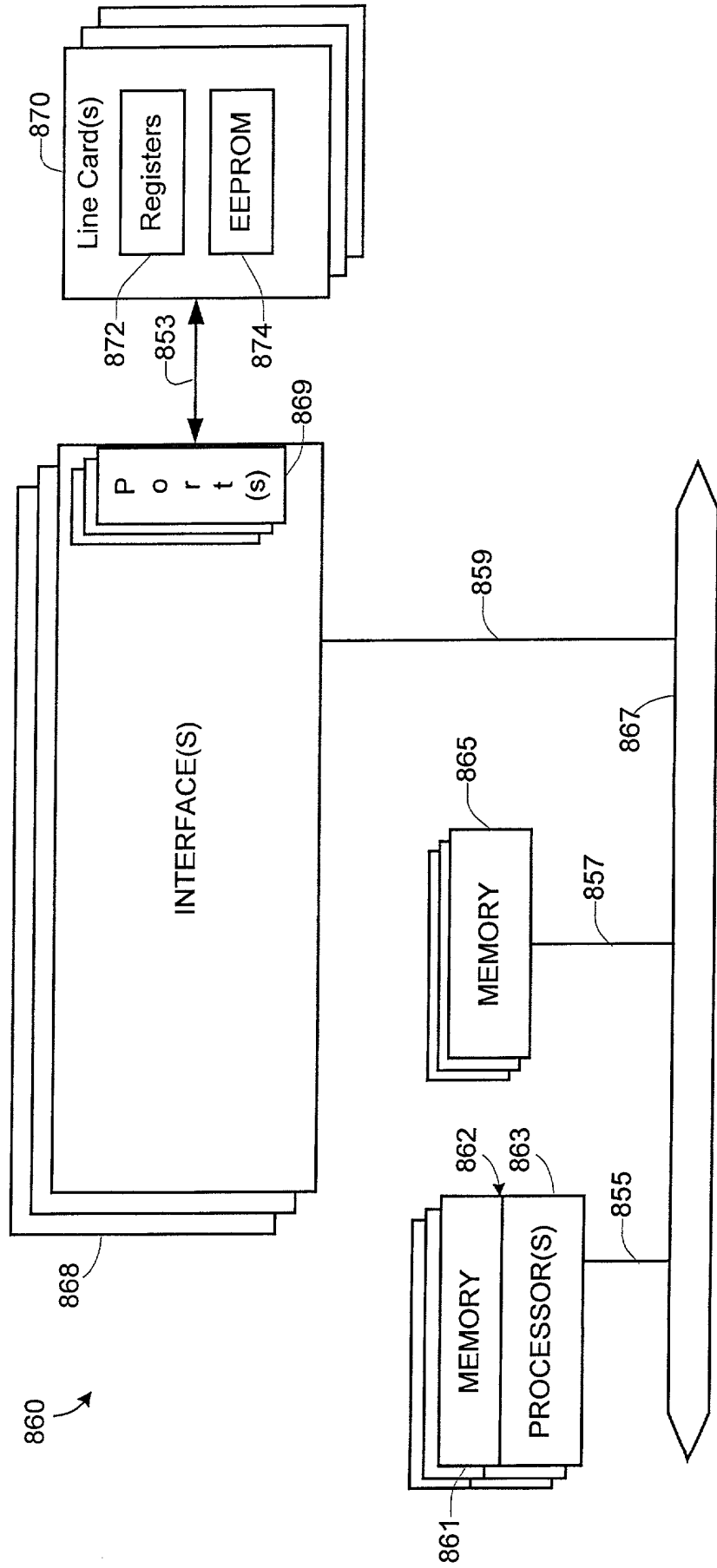


Figure 8